## **PCT**

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
PCT 21139Y	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/moni				
PCT/US03/21758	11 July 2003 (11.07.2003)	15 July 2002 (15.07.2002)			
International Patent Classification (IPC)					
IPC(7): C07D 239/72; A61K 31/519; A6 Applicant	51P 3/06, 3/04, 3/08, 5/28, 35/00 a	nd US Cl.: 544/279; 514/258.1			
7					
MERCK & CO., INC.					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a	a total of <u>S</u> sheets, including th	nis cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a					
3. This report contains indicat	ions relating to the following ite	ms:			
I Basis of the repor	rt				
II Priority					
III Non-establishmen	nt of report with regard to novel	ty, inventive step and industrial applicability			
IV Lack of unity of i	invention				
V Reasoned stateme applicability; citat	ent under Article 35(2) with rega	rd to novelty, inventive step or industrial			
applicability; citations and explanations supporting such statement  VI Certain documents cited					
<del></del>					
The first devices in the international approaching					
Certain observation	ons on the international applicati	on			
Date of submission of the demand	Date of	completion of this report			
09 January 2004 (09.01.2004)	04 March	1 2004 (04.03.2004)			
Name and mailing address of the IPEA/US					
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents  Authorized officer  Authorized officer					
P.O. Box 1450 Alexandria, Virginia 22313-1450  Verikataraman Balasubramanian					
rm PCT/IPEA/409 (cover sheet)(July 1998)  Telephone No. 571-272-1600					
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_	n	NTERNATIONAL PRELIMINARY EXAMINATION REPORT	PCT/US03/21758			
1	. Bas	sis of the report				
	. Wit	th regard to the elements of the international application:*				
	$\boxtimes$	the international application as originally filed.				
	$\boxtimes$	the description:				
		pages 1-68 as originally filed				
1		pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
İ	$\boxtimes$	the claims:				
1		pages 69-84, as originally filed				
		pages NONE, as amended (together with any statemen	at) under Article 19			
1		pages NONE, filed with the demand				
		pages NONE , filed with the letter of	·			
	$\boxtimes$	the drawings:				
		pages NONE, as originally filed				
1		pages NONE , filed with the demand				
		pages NONE , filed with the letter of	•			
		the sequence listing part of the description:				
ĺ		pages NONE , as originally filed				
		pages NONE , filed with the demand				
1,	<b>XX7</b> ;+	pages NONE , filed with the letter of	•			
	2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of interres. 55.2 and/or 55.3).	national preliminary examination(under Rules			
3.	With	h regard to any nucleotide and/or amino acid sequence disclosed mational preliminary examination was carried out on the basis of the	in the international application, the			
		contained in the international application in printed form.	to sequence risting.			
		filed together with the international application in computer readal	ble form.			
		furnished subsequently to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form				
		The statement that the subsequently furnished written sequence lis international application as filed has been furnished.	ting does not go beyond the disclosure in the			
		The statement that the information recorded in computer readable has been furnished.	form is identical to the written sequence listing			
4.	$\boxtimes$	The amendments have resulted in the cancellation of:				
		the description, pages NONE				
		the claims, Nos. NONE				
		the drawings, sheets/fig NONE				
5.						
		This report has been established as if (some of) the amendments had not b beyond the disclosure as filed, as indicated in the Supplemental Box (Rule	> 70 2(a)\ **			
	repiaci repor	rement sheets which have been furnished to the receiving Office in response rt as "originally filed" and are not annexed to this report since they do not eplacement sheet containing such amendments must be referred to under ite	e to an invitation under Article 14 are referred to in			
			winners to title report.			



International Aplication No. PCT/US03/21758

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. STATEMENT					
Novelty (N)	Claims	1-39	YES		
	Claims	NONE	NO		
Inventive Step (IS)	Claims	1-39	YES		
	Claims	NONE	NO		
Industrial Applicability (IA)	Claims	1-39	YES		
	Claims	NONE	NO		

## 2. CITATIONS AND EXPLANATIONS

Claims 1-39 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the pyridopyrimidine compounds, their composition and method of use embraced in the instant claims.

Claims 1-39 the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry as therapeutic agents for treating diseases including atheroscelorsis and diabetes.

Form PCT/IPEA/409 (Box V) (July 1998)